

C7L7 Worksheet Answers

1. Decay

$$\text{Initial Amount} = 2.5$$

$$\text{Decay Factor} = \frac{3}{7}$$

2. Growth

$$\text{Initial Amount} = 0.76$$

$$\text{Growth Factor} = \frac{5}{2}$$

3. Growth

$$\text{Initial Amount} = 24$$

$$\text{Growth Factor} = 3.7$$

4. Decay

$$\text{Initial Amount} = 3.2$$

$$\text{Decay Factor} = 0.27$$

5. $f(x) = 32000 (1 + 0.05)^x$

6. $f(x) = 13000 (1 - 0.08)^x$

7. $f(x) = 2700 (1 + 0.04)^x$

8. $f(x) = 8529 (1 - 0.12)^x$

9. $f(x) = 1675 (1 - 0.19)^x$

10. $f(x) = 13450 (1 - 0.07)^x$

11. $f(x) = 66000 (1 - 0.05)^x$

12. $f(x) = 4000 (1 - 0.12)^x$

13. 38094 people

14. \$9704.85

15. 5864 deer

16. \$5008.82

17. 1154 cheetahs

18. \$7554.35

19. \$12.22

20. 27642 bacteria